Daniel Smiley Research Center
MOHONK PRESERVE
Mohonk Lake, New Paltz, NY 12561

Natural Science Note No. 821–2024
From records of the Mohonk Lake Cooperative Weather Station
Established January, 1896

Weather Summary for October, 2024

	127-year average 1896-2023	Actual This Year	Deviation from Average
Temperature (°F)	52.0	55.3	+3.3
Precipitation (in.)	4.05	0.82	-3.23
Snow (in.)	0.27	0.00	-0.27

Highest temperature: 81°F on the 22nd
Lowest temperature: 31°F on the 17th

Summary

Average temperature for October was 55.3°F, 3.3°F above the 127-year average. Total precipitation was 0.82 in., 3.23 inches below average, marking this the sixth driest October in our recorded history (Table 1; Graph 4). There were 6 recorded days of measurable precipitation (Average is 11). There was no snowfall, 0.27 inches below average. First frost occurred on October 17th (average is October 22nd). The growing season was 175 days (average is 180).

Table 1. **Top 10 Driest Octobers**

Year	Precipitation (in.)	Rank
1924	0.00	1
1928	0.12	2
2001	0.20	3
1963	0.30	4
1952	0.72	5
2024	***0.82***	***6***
1964	0.90	7
1897	1.06	8
1930	1.08	9
1982	1.12	10

Graph Explanation

MOHONK LAKE COOPERATIVE WEATHER STATION

The dotted red line is a trendline. Trendlines help us see patterns within data. The equation for this linear trendline is y=mx+b, where m=the slope and b=the intercept.

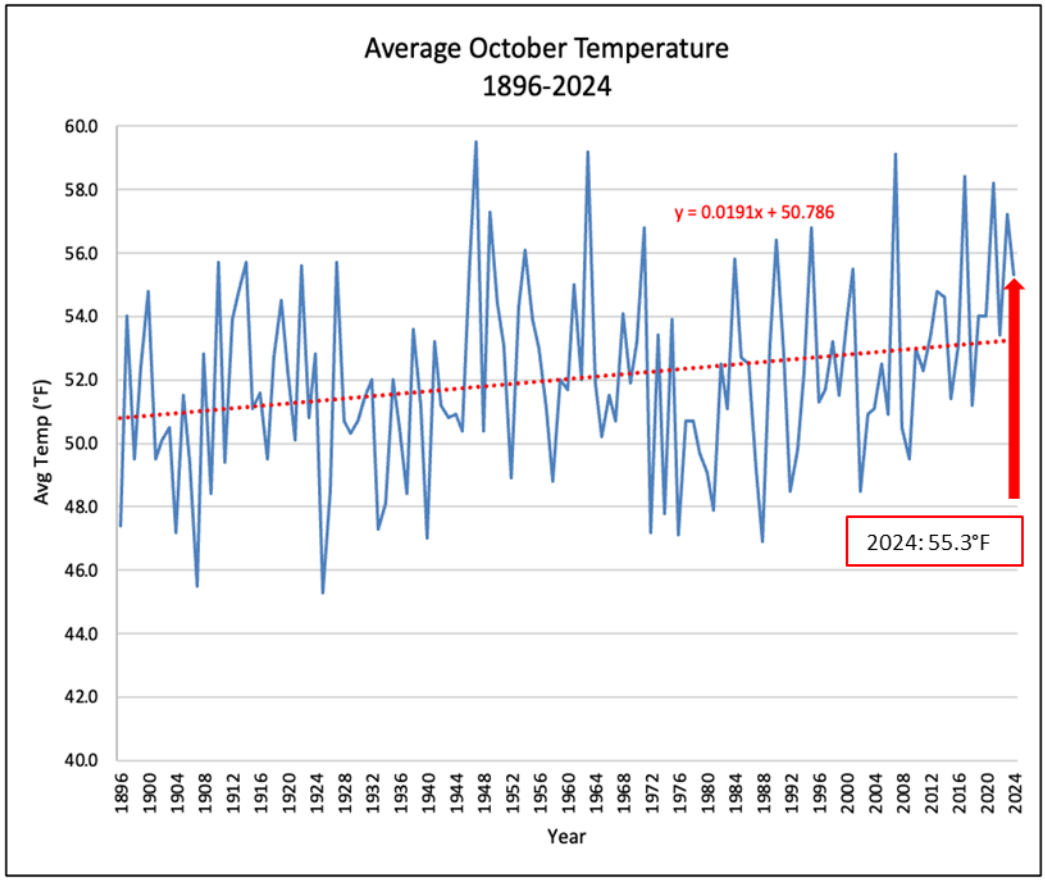
Graph 1 shows the average October temperature from 1896-2024. The slope for this data is 0.0191; meaning for this time period, on average, temperature increased about 0.0191°F per year.

Graph 2 shows the average October temperature from 1984-2024. The slope for this data is 0.0809; meaning for this time period, on average, temperature increased about 0.0809°F per year, just over four times faster than the 1896-2024 time period.

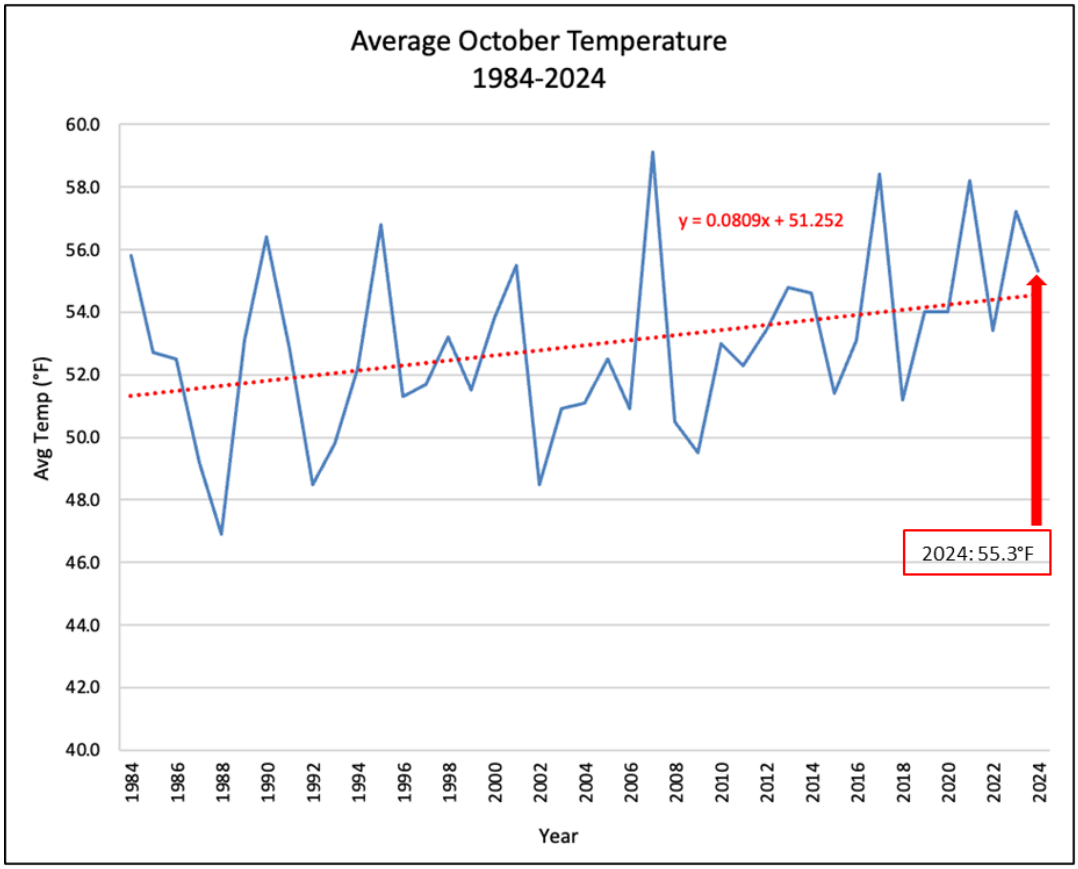
Graph 3 shows the average October temperature from 1896-1984. The slope for this data is 0.0118; meaning for this time period, on average, temperature increased about 0.0118°F per year, almost seven times slower than the 1984-2024 time period.

See pages 2-4 for graphs.

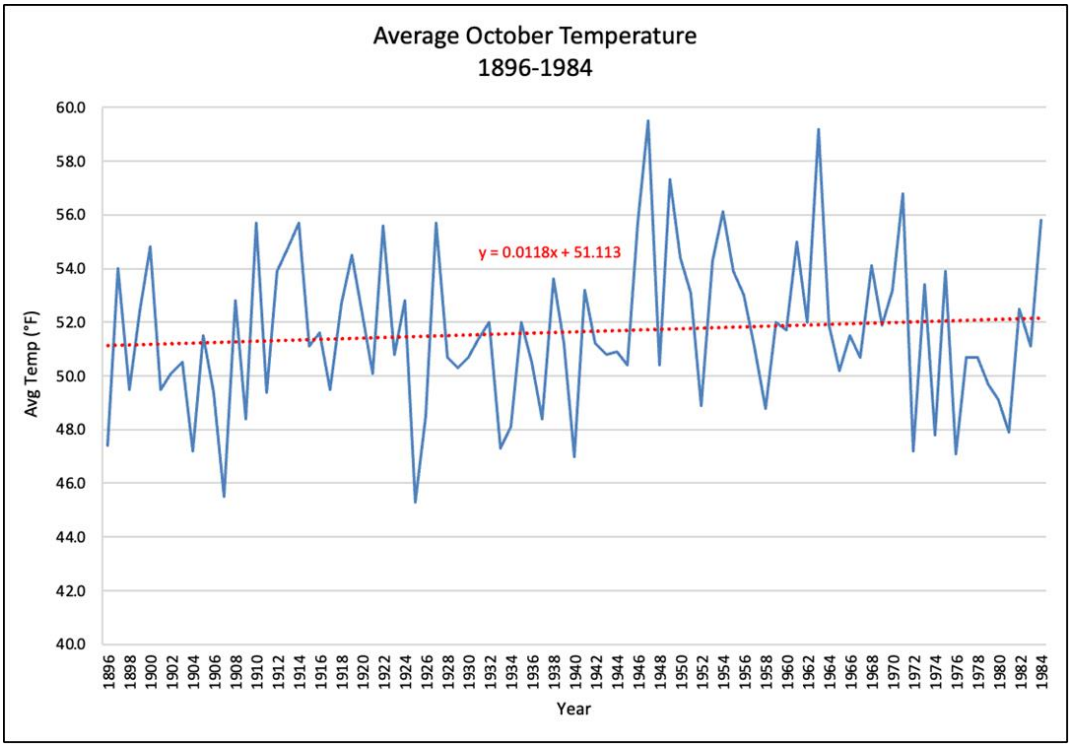
Graph 1:



Graph 2:

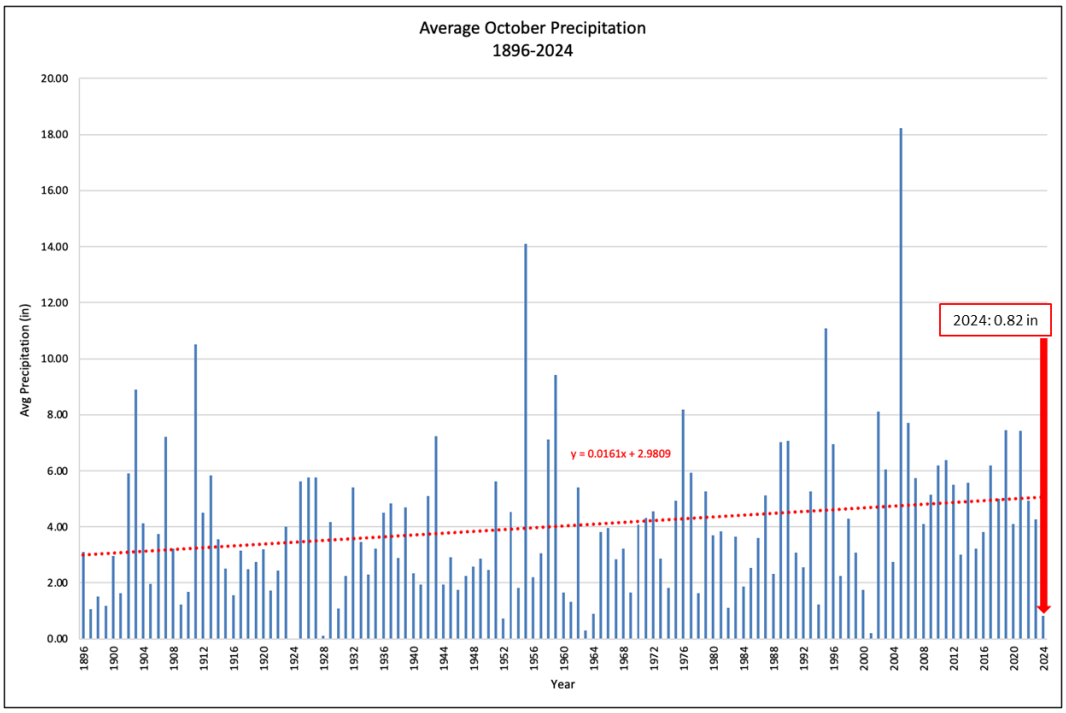


Graph 3:



Graph 4:

MOHONK LAKE COOPERATIVE WEATHER STATION



Penny Adler-Colvin, Community Science Coordinator
Camille Seliquini, SCA Member
Megan Napoli, Associate Director of Conservation Science & Research